

Name _____

Math 1
Quiz 1 Practice

The majority of this document is in a similar format as quizzes in Mr. Buck's class.

For all problems, show all work. Do not round unless instructed otherwise. You may use a graphing calculator. Good luck! ☺

1. (C3, 1C) Jasmine is trying to solve the equation $7x - 3(x - 1) = 2x - 5$. Following is her solution and justification:

$7x - 3x - 3 = 2x - 5$	I distributed the 3 across the parentheses.
$4x - 3 = 2x - 5$	I combined like terms on the left hand side.
$2x - 3 = -5$	I subtracted $2x$ from both sides.
$2x = -2$	I added 3 to both sides.
$x = -1$	I divided both sides by 2.

Jasmine checked her answer, but it did *not* check out. Thus, she made at least one error. Use complete sentences to describe the error(s) that Jasmine made.

There are more problems on the back! ☺

For the following two problems, refer to the following information:

A commonly used basic equation in beginning physics is

$$d = v_0 t + \frac{1}{2} a t^2.$$

2. (1C) Solve the above equation for the variable v_0 .

3. (1B) The units for some of the variables in the given equation are as follows:

variable	units
d	meters
a	$\frac{\text{meters}}{\text{seconds}^2}$
t	seconds

Based on these definitions, determine the units in which v_0 must be measured.

4. (1A, 1B) Based on the units for v_0 , determine the type of quantity that v_0 measures. (I am expecting a one word answer.)

5. (C6) Once you have completed the previous four problems, show Mr. Buck your engraved graphing calculator.